May 26, 1961

Mr. R.F. Freitas
Product Supervisor
Analytical and Photogrammetric
Instruments Section
Bausch and Lomb, Inc.
Rochester 2, New York

Dear Mr. Freitas:

Thank you for your letter of May 16. Actually this, and the service manual, take care of most of our questions for the time being. But we would welcome a visit if this eventuates. We are looking forward to your time rate accessory. It's too bad you can't regulate the brake motor to give a time-regulated drive on the same instrument, but this convenience may be a mismatch to the main purpose of your recorder.

The densitometer would comprise a mechanical linkage to run a photographic negative across the sample beam, with either a gray standard, or a comparison negative, in the reference beam.

Monochromatic light would not be needed. The design would take advantage of the split beam and comparison techniques of the Sputnic. Some additional optics might be needed to focus a narrow slit in the negatives. I would suggest that this feature would attract a great deal of interest--as your neighbors at E-K could confirm.

What I had in mind for light scattering certainly could exploit an integrating sphere--but how good is this in the UV ( to 250 mμ). I would place the sample just inside the entrance port of the sphere. My point is really to dispose of scattering more than to measure it, as I am interested in the <u>absorption</u> spectra of turbid suspensions.

Yours sincerely,

Joshua Lederberg
Professor of Genetics